

Logon

*** It is now 8/14/08 12:17:17 PM ***

Welcome to DialogLink - Version 5

Revolutionize the Way You Work!

New on Dialog

Order Patent and Trademark File Histories Through Dialog

Thomson File Histories are now available directly through *Dialog*. Combined with the comprehensive patent and trademark information on *Dialog*, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in the following patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need.

Thomson File Histories are available from the following *Dialog* databases:

- CLAIMS/Current Patent Legal Status (File 123)
- CLAIMS/U.S. Patents (File 340)
- Chinese Patent Abstracts in English (File 344)
- Derwent Patents Citation Index (File 342)
- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO - Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)

- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN - U.S. Federal (File 226)

DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

Show Preferences for details

? Help Log On Msg

*** ANNOUNCEMENTS ***

"Thomson File Histories" are now available directly through Dialog in selected patent and trademark files. Combined with the comprehensive patent and trademark information on Dialog, file histories give you the most complete view of a patent or trademark and its history in one place. When searching in one of the patent and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need. See HELP FILEHIST for more information about how to use the link and a list of files that contain the link.

The 2008 EMTREE Thesaurus has been added to EMBASE (Files 72, 73, 772, and 972)

RESUMED UPDATING

***File 120, U.S. Copyrights

RELOADS COMPLETED

***File 50, CAB Abstracts

***File 162, Global Health

***File 342, Patents Citation Index

***File 227, TRADEMARKSCAN(R) - Community Trademarks

FILES RENAMED

***File 321, PLASPEC now known as Plastic Properties Database

FILES REMOVED

***Files 476/Financial Times & 473/Financial Times Abstracts

***Files 359,959,804, Chemical Economics Handbook

***Files 360,960, Specialty Chemicals Update Program

>>>For the latest news about Dialog products, services, content<<<

>>>and events, please visit What's New from Dialog at <<<

>>><http://www.dialog.com/whatsnew/>. You can find news about <<<

>>>a specific database by entering HELP NEWS <file number>. <<<

? Help Off Line

* * *

Connecting to Rob Pond - Dialog - 264751

Connected to Dialog via SMS003031735

? B 15, 9, 610, 810, 275, 476, 624, 621, 636, 613, 813, 16, 160, 634, 148, 20, 35, 583,
65, 2, 474, 475, 99, 256, 348, 349, 347, 635, 570, PAPERSMJ, PAPERSEU, 47

>>>W: 476 does not exist

1 of the specified files is not available

[File 15] ABI/Inform(R) 1971-2008/Aug 13

(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 9] Business & Industry(R) Jul/1994-2008/Aug 08

(c) 2008 The Gale Group. All rights reserved.

[File 610] Business Wire 1999-2008/Aug 12

(c) 2008 Business Wire. All rights reserved.

**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 810] Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire . All rights reserved.

[File 275] Gale Group Computer DB(TM) 1983-2008/Aug 06

(c) 2008 The Gale Group. All rights reserved.

[File 624] McGraw-Hill Publications 1985-2008/Aug 13

(c) 2008 McGraw-Hill Co. Inc. All rights reserved.

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 621] Gale Group New Prod.Annou.(R) 1985-2008/Jul 25

(c) 2008 The Gale Group. All rights reserved.

[File 636] Gale Group Newsletter DB(TM) 1987-2008/Aug 05

(c) 2008 The Gale Group. All rights reserved.

[File 613] PR Newswire 1999-2008/Aug 14

(c) 2008 PR Newswire Association Inc. All rights reserved.

**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 813] PR Newswire 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc. All rights reserved.

[File 16] Gale Group PROMT(R) 1990-2008/Aug 06

(c) 2008 The Gale Group. All rights reserved.

**File 16: Because of updating irregularities, the banner and the update (UD=) may vary.*

[File 160] Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group. All rights reserved.

[File 634] San Jose Mercury Jun 1985-2008/Jul 10

(c) 2008 San Jose Mercury News. All rights reserved.

[File 148] Gale Group Trade & Industry DB 1976-2008/Aug 14

(c)2008 The Gale Group. All rights reserved.

**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 20] Dialog Global Reporter 1997-2008/Aug 14

(c) 2008 Dialog. All rights reserved.

[File 35] Dissertation Abs Online 1861-2008/Apr

(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 583] Gale Group Globalbase(TM) 1986-2002/Dec 13

(c) 2002 The Gale Group. All rights reserved.

**File 583: This file is no longer updating as of 12-13-2002.*

[File 65] Inside Conferences 1993-2008/Aug 14

(c) 2008 BLDSC all rts. reserv. All rights reserved.

[File 2] INSPEC 1898-2008/Jul W2

(c) 2008 Institution of Electrical Engineers. All rights reserved.

[File 474] New York Times Abs 1969-2008/Aug 14
(c) 2008 The New York Times. All rights reserved.

[File 475] Wall Street Journal Abs 1973-2008/Aug 14
(c) 2008 The New York Times. All rights reserved.

[File 99] Wilson Appl. Sci & Tech Abs 1983-2008/Jul
(c) 2008 The HW Wilson Co. All rights reserved.

[File 256] TecInfoSource 82-2008/Feb
(c) 2008 Info.Sources Inc. All rights reserved.

[File 348] EUROPEAN PATENTS 1978-200832
(c) 2008 European Patent Office. All rights reserved.

[File 349] PCT FULLTEXT 1979-2008/UB=20080807|UT=20080731
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[File 347] JAPIO Dec 1976-2007/Dec(Updated 080328)
(c) 2008 JPO & JAPIO. All rights reserved.

[File 635] Business Dateline(R) 1985-2008/Aug 14
(c) 2008 ProQuest Info&Learning. All rights reserved.

[File 570] Gale Group MARS(R) 1984-2008/Aug 07
(c) 2008 The Gale Group. All rights reserved.

[File 387] The Denver Post 1994-2008/Aug 12
(c) 2008 Denver Post. All rights reserved.

[File 471] New York Times Fulltext 1980-2008/Aug 13
(c) 2008 The New York Times. All rights reserved.

[File 492] Arizona Repub/Phoenix Gaz 19862002/Jan 06
(c) 2002 Phoenix Newspapers. All rights reserved.

**File 492: File 492 is closed (no longer updating). Use Newsroom, Files 989 and 990, for current records.*

[File 494] St LouisPost-Dispatch 1988-2008/Aug 10
(c) 2008 St Louis Post-Dispatch. All rights reserved.

[File 631] Boston Globe 1980-2008/Aug 11
(c) 2008 Boston Globe. All rights reserved.

[File 633] Phil.Inquirer 1983-2008/Aug 13
(c) 2008 Philadelphia Newspapers Inc. All rights reserved.

[File 638] Newsday/New York Newsday 1987-2008/Aug 13
(c) 2008 Newsday Inc. All rights reserved.

[File 640] San Francisco Chronicle 1988-2008/Aug 13
(c) 2008 Chronicle Publ. Co. All rights reserved.

[File 641] Rocky Mountain News Jun 1989-2008/Aug 13
(c) 2008 Scripps Howard News. All rights reserved.

[File 702] Miami Herald 1983-2008/Aug 05
(c) 2008 The Miami Herald Publishing Co. All rights reserved.

[File 703] USA Today 1989-2008/Aug 12
(c) 2008 USA Today. All rights reserved.

[File 704] (Portland)The Oregonian 1989-2008/Aug 10
(c) 2008 The Oregonian. All rights reserved.

[File 713] Atlanta J/Const. 1989-2008/Aug 10
(c) 2008 Atlanta Newspapers. All rights reserved.

[File 714] (Baltimore) The Sun 1990-2008/Aug 12
(c) 2008 Baltimore Sun. All rights reserved.

[File 715] Christian Sci.Mon. 1989-2008/Aug 14
(c) 2008 Christian Science Monitor. All rights reserved.

[File 725] (Cleveland)Plain Dealer Aug 1991-2008/Aug 13
(c) 2008 The Plain Dealer. All rights reserved.

[File 735] St. Petersburg Times 1989- 2008/Aug 13
(c) 2008 St. Petersburg Times. All rights reserved.

[File 477] Irish Times 1999-2008/Aug 13
(c) 2008 Irish Times. All rights reserved.

[File 710] Times/Sun.Times(London) Jun 1988-2008/Aug 14
(c) 2008 Times Newspapers. All rights reserved.

[File 711] Independent(London) Sep 1988-2006/Dec 12
(c) 2006 Newspaper Publ. PLC. All rights reserved.

**File 711: Use File 757 for full current day's news of the Independent, as as well as full coverage of many additional European news sources.*

[File 756] Daily/Sunday Telegraph 2000-2008/Aug 13
(c) 2008 Telegraph Group. All rights reserved.

[File 757] Mirror Publications/Independent Newspapers 2000-2008/Aug 13
(c) 2008. All rights reserved.

[File 47] Gale Group Magazine DB(TM) 1959-2008/Jul 31
(c) 2008 The Gale group. All rights reserved.

? s pd<20001016

Processing

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>>>W: One or more prefixes are unsupported

or undefined in one or more files.

S1 78358784 S PD<20001016

? S AU=(boone, b? OR boone b? OR barry(2N)boone) OR BY=(barry(2N)boone)

>>>W: One or more prefixes are unsupported

or undefined in one or more files.

Input error: Numeric characters expected

103 AU=BOONE, B?

```

11    AU=BOONE B?
94346 AU=BARRY
10299 AU=BOONE
4     AU=BARRY(2N)AU=BOONE
593   BY=BARRY
3     BY=BOONE
0     BY=BARRY(2N)BY=BOONE
S2    114   S AU=(BOONE, B? OR BOONE B? OR BARRY(2N)BOONE) OR BY=(BARRY(2N)BOONE)

```

```

? S AU=(sacco, n? OR sacco n? OR nathan(2N)sacco) OR BY=(nathan(2N)sacco)

```

```

>>>W: One or more prefixes are unsupported

```

```

or undefined in one or more files.

```

```

Input error: Numeric characters expected

```

```

20    AU=SACCO, N?
6     AU=SACCO N?
18375 AU=NATHAN
161   AU=SACCO
6     AU=NATHAN(2N)AU=SACCO
13    BY=NATHAN
1     BY=SACCO
0     BY=NATHAN(2N)BY=SACCO
S3    26   S AU=(SACCO, N? OR SACCO N? OR NATHAN(2N)SACCO) OR BY=(NATHAN(2N)SACCO)

```

```

? S AU=(chard, r? OR chard r? OR rhys(2N)chard) OR BY=(rhys(2N)chard)

```

```

>>>W: One or more prefixes are unsupported

```

```

or undefined in one or more files.

```

```

Input error: Numeric characters expected

```

```

12    AU=CHARD, R?
5     AU=CHARD R?
6615  AU=RHYS
86    AU=CHARD
2     AU=RHYS(2N)AU=CHARD
0     BY=RYHS
0     BY=CHARD

```

```
0 BY=RYHS (2N)BY=CHARD
S4 17 S AU=(CHARD, R? OR CHARD R? OR RHYS (2N)CHARD) OR BY=(RYHS (2N)CHARD)
```

```
? s s1 and (s2 or s3 or s4)
```

```
78358784 S1
114 S2
26 S3
17 S4
S5 24 S S1 AND (S2 OR S3 OR S4)
```

```
? s s5 and (file(5n)map)
```

```
Processing
```

```
24 S5
3867351 FILE
1822748 MAP
11473 FILE(5N)MAP
S6 0 S S5 AND (FILE(5N)MAP)
```

```
? s s5 and ebay or ebay(w)com
```

```
Stop request submitted
```

```
>>>P: Processing stopped
```

```
? s s5 and (ebay or (ebay(w)com))
```

```
Processing
```

```
Processing
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Processing
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Processing
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Processing
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Processing
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Processing
```

```
24 S5
258505 EBAY
258505 EBAY
32825319 COM
```

18706 EBAY(W)COM

S7 0 S S5 AND (EBAY OR (EBAY(W)COM))

? rd s5

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S8 22 RD S5 (UNIQUE ITEMS)

? t s8/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

8/8/1 (Item 1 from file: 15)

ABI/Inform(R)

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02577229 283024081

Artificial neural network and the financial markets: A survey

2000

Geographic Names: United States; US

Descriptors: Neural networks; Models; Securities markets; Investors

Classification Codes: 5240 (CN=Software & systems); 3400 (CN=Investment analysis & personal finance); 9130 (CN=Experimental/Theoretical); 9190 (CN=United States)

Print Media ID: 14828

8/8/2 (Item 2 from file: 15)

ABI/Inform(R)

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01512358 01-63346

USE FORMAT 7 OR 9 FOR FULL TEXT

Sailing into the next century

Word Count: 1770 Length: 2 Pages

Feb 1997

Company Names:

Port of Rotterdam

Geographic Names: Netherlands

Descriptors: Ports; Shipping industry; Competitive advantage; Strategic planning; Target markets

Classification Codes: 9175 (CN=Western Europe); 8350 (CN=Transportation industry); 2310 (CN=Planning); 7500 (CN=Product planning & development)

8/8/3 (Item 3 from file: 15)

ABI/Inform(R)

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01327749 99-77145

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Regaining the competitive edge: Partnership through outsourcing

Word Count: 610 Length: 1 Pages

Nov 1996

Geographic Names: US

Descriptors: Retail banking; Customer services; Outsourcing; Technological change; Advantages; Bank automation

Classification Codes: 9190 (CN=United States); 8120 (CN=Retail banking); 5120 (CN=Purchasing); 2400 (CN=Public relations); 5240 (CN=Software & systems)

8/8/4 (Item 4 from file: 15)

ABI/Inform(R)

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00036419 76-02203

PROCURING MINICOMPUTER SYSTEMS

FEB. 1976

Descriptors: Minicomputers; Buying; Decisions; Distribution channels

Classification Codes: 5200 (CN=Communications & information management); 7400 (CN=Distribution)

8/8/5 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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01599266 Supplier Number: 13761896 (Use Format 7 Or 9 For FULL TEXT)

Letters. (Letter to the Editor)

June 15 , 1993

Word Count: 1363 Line Count: 00103

File Segment: CD File 275

8/8/6 (Item 2 from file: 275)

Gale Group Computer DB(TM)

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01273593 Supplier Number: 07318071

The impact of high technology: a survey of rural, suburban and urban library media centers.

Jan , 1989

Special Features: illustration; table

Descriptors: School Libraries; Audio Visual; Education; Computer Education; Video Systems

SIC Codes: 8211 Elementary and secondary schools; 8231 Libraries

File Segment: CD File 275

8/8/7 (Item 1 from file: 99)

Wilson Appl. Sci & Tech Abs

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1740660 H.W. Wilson Record Number: BAST98061279

Electrochemistry of S adlayers at underpotentially deposited Cd on Au(111): implications for the electrosynthesis of high-quality CdS thin films

Descriptors: Cadmium sulfide--Spectra; Atomic layer epitaxy; Thin semiconductor films ;
19980820

8/8/8 (Item 2 from file: 99)

Wilson Appl. Sci & Tech Abs

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1339054 H.W. Wilson Record Number: BAST96040153

Optical properties of ultrathin electrodeposited CdS films probed by resonance Raman spectroscopy and photoluminescence

Descriptors: Chalcogenide films--Spectra; Cadmium sulfide--Optical properties; Atomic layer epitaxy ;
19960530

8/8/9 (Item 3 from file: 99)

Wilson Appl. Sci & Tech Abs

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1334642 H.W. Wilson Record Number: BAST96022288

A crystallographic map of chiral recognition in p complexes of aromatic aldehydes and a chiral transition metal Lewis acid: enantioface binding selectivities in solution correlate to distances between metal and carbon stereocenters in the solid state

Descriptors: Aldehydes--Crystallography; Diastereomers; Pi bonds ;
19960313

8/8/10 (Item 4 from file: 99)

Wilson Appl. Sci & Tech Abs

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1201061 H.W. Wilson Record Number: BAST94069722

Simultaneous bolometric and nonbolometric microwave response in biepitaxial Y-Ba-Cu-O thin films

Descriptors: High temperature superconductors-- Measurement uses; Microwaves--Measurement ;
19941101

8/8/11 (Item 5 from file: 99)

Wilson Appl. Sci & Tech Abs

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1139695 H.W. Wilson Record Number: BAST94008243

Model of the microwave response in granular Bi-Sr-Ca-Cu-O thin films

Descriptors: Bismuth strontium calcium copper oxides-- Radiation effect; Superconductors--Measurement uses;
Microwaves-- Measurement ;
19931201

8/8/12 (Item 6 from file: 99)

Wilson Appl. Sci & Tech Abs

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0952594 H.W. Wilson Record Number: BAST91016849

Microwave detection using granular Bi-Sr-Ca-Cu-O thin films

Descriptors: Microwaves--Measurement; High temperature superconductors--Measurement uses; Microwave
antennas ;
19910215

8/8/13 (Item 7 from file: 99)

Wilson Appl. Sci & Tech Abs

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0644117 H.W. Wilson Record Number: BAST86013125

Evaluating program generators for micros [book review]

19860100

8/8/21 (Item 1 from file: 47)

Gale Group Magazine DB(TM)

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02070564 Supplier Number: 01810920

The "why" of one love poem.

Feb , 1981

Descriptors: Macbeth (Theater)--Study and teaching; English language--Study and teaching

Named Persons: Shakespeare, William--Study and teaching

File Segment: MI File 47

8/8/22 (Item 2 from file: 47)

Gale Group Magazine DB(TM)

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01012394 Supplier Number: 00059393

Story-book bear?

Jun , 1959

Descriptors: Bear hunting; Hunting--Canada

Geographic Codes: NNCN

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

8/8/21 (Item 1 from file: 47)

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02070564 Supplier Number: 01810920

The "why" of one love poem.

Feb , 1981

Descriptors: Macbeth (Theater)--Study and teaching; English language--Study and teaching

Named Persons: Shakespeare, William--Study and teaching

File Segment: MI File 47

8/8/22 (Item 2 from file: 47)

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01012394 Supplier Number: 00059393

Story-book bear?

Jun , 1959

Descriptors: Bear hunting; Hunting--Canada

Geographic Codes: NNCN

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

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The "why" of one love poem.

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00059393
Story-book bear?

Jun , 1959
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File Segment: MI File 47

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02070564 Supplier Number: 01810920
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Named Persons: Shakespeare, William--Study and teaching
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8/8/22 (Item 2 from file: 47)
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01012394 Supplier Number: 00059393
Story-book bear?

Jun , 1959

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Geographic Codes: NNCN

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

8/8/22 (Item 2 from file: 47)

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01012394 Supplier Number: 00059393

Story-book bear?

Jun , 1959

Descriptors: Bear hunting; Hunting--Canada

Geographic Codes: NNCN

File Segment: MI File 47

? t s8/k/all

8/K/1 (Item 1 from file: 15)

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...Boone, Bryan E

8/K/2 (Item 2 from file: 15)

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Boone, Barbara

8/K/3 (Item 3 from file: 15)

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Boone, Bill

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BOONE, BILL

8/K/5 (Item 1 from file: 275)
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...Boone, Barry
19930615

8/K/6 (Item 2 from file: 275)
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Boone, Barbara...
19890100

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Boone, B. Edward...
19980820

8/K/8 (Item 2 from file: 99)
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Boone, B. Edward
19960530

8/K/9 (Item 3 from file: 99)
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Boone, Brian J
19960313

8/K/10 (Item 4 from file: 99)
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Boone, B. G
19941101

8/K/11 (Item 5 from file: 99)
Wilson Appl. Sci & Tech Abs

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Boone, B. G...
19931201

8/K/12 (Item 6 from file: 99)
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Boone, B. G
19910215

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Chard, R. A
19860100

8/K/14 (Item 1 from file: 348)
EUROPEAN PATENTS
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Inventor:

- BOONE, Bradley, P...
;;

Country	Number	Kind	Date	
Type	Pub. Date		Kind	Text
Available Text	Language		Update	Word Count
Total Word Count (Document A)				
Total Word Count (Document B)				
Total Word Count (All Documents)				

8/K/15 (Item 2 from file: 348)
EUROPEAN PATENTS
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Inventor:

- Chard, Ronald...
;;

Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

8/K/16 (Item 3 from file: 348)

EUROPEAN PATENTS

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Inventor:

- Chard, Ronald...

;;

Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

8/K/17 (Item 4 from file: 348)

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Inventor:

- Chard, Ronald...

;;

Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

8/K/18 (Item 1 from file: 349)

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PCT FULLTEXT

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	Country	Number	Kind	Date
Patent				19

8/K/19 (Item 2 from file: 349)

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	Country	Number	Kind	Date
Patent				19

8/K/20 (Item 3 from file: 349)

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Letters. (Letter to the Editor)

Glass, James F.; Spielvogel, Lawrence G.; Sabowitz, Norm; Senechal, Ed; Boone, Barry; Cassingham, Randy;
Dawson, Alan; Egan, James
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Text:

GREEN BASHING

PC Magazine and Bill Howard should resist such trends as "The Politically Correct PC" (March 30, 1993) with all their energy. The so-called environmental movement is dominated by Socialist and other leftist groups that can't get their programs adopted on their own merits. Computers have no place in the world they are planning for us. Bill Howard would do well to consider the fact that many of the physical and chemical processes that are fundamental to manufacturing PCs would be outlawed or rendered more expensive if the "Greens" prevailed in the current debate. In fact, PC Magazine would be politically incorrect and lose its audience, since PCs would no longer be a mass-market item.

James F. Glass
Chatsworth, California
WATTS THE REAL DAMAGE?

A typical PC does not draw 150 watts today. Tests show a range of 60 to 140 watts, with most drawing less than 100 watts. Bill Howard ("The Politically Correct PC") says a traditional system uses \$35 worth of electricity per year. If a traditional system draws 150 watts, the cost of electricity would have to be 2.7 cents per kilowatt hour. But, in fact, the national average is probably about 8 cents per kilowatt hour, with a range of 5 cents to 15 cents. An EPA "Energy Star" system drawing 60 watts would have to buy electricity at 2.3 cents per kilowatt hour in order to cost \$12 per year to operate.

Howard also states that it takes 1.5 watts of cooling energy to offset each watt of PC energy. That is not correct. A typical air conditioning unit adds about 0.3 watts for each watt of PC use.

Lawrence G. Spielvogel
King of Prussia, Pennsylvania

While pleased to see any airing of environmental matters in an influential computer magazine, I must take issue with Bill Howard's restatement of the widely held misconception that "a typical PC and monitor draws 150 watts today." That figure is hopelessly low.

The underestimate doubtlessly is caused by confusing input required with output supplied. Even the power supply of the original IBM PC, which was rated at a meager 63.5 watts of DC output, consumed 300 watts. My own 386/25 clone with a 200-watt power supply has, according to the statement on the power supply, a rated consumption of "90-130 VAC 6 AMP," or approximately 660 watts (110 volts times 6 amps). A 150-watt power supply would therefore consume 495 watts. A PC consuming 495 watts around the clock rather than 150 would cost \$346 per year in electricity, not \$105 as Howard concludes.

Norm Sabowitz
Halifax, Nova Scotia, Canada

Volts times amps does equal watts, but what's stamped on the power supply only tells you the maximum safe load for the power supply, not that the PC is actually drawing anywhere near 660 to 720 watts. Two PCs we tested recently ("The Green Machine," May 25, 1993) drew 124 and 162 watts, including the monitors. (Some small, new systems may be closer to 100 than 150 watts.) Our calculation that contemporary PCs use \$35 of electricity yearly was based on a 150-watt system running 9 hours each workday in a place where electricity costs 10 cents per kilowatt hour, as it does in the New York City area. You get roughly the same answer if it's 12 hours a day and 8-cent electricity, which is how the EPA does its calculation. A system left on around the clock burns \$105 to \$135 of electricity each year.--Ed.

HELLO, EGGHEAD? EUROPE HERE. COULD YOU SEND ME. . .?

John C. Dvorak hit the nail on the head in his March 16, 1993, Inside Track when he criticized software companies' treatment of overseas users. I've lived outside the U.S. for nine years and have found it almost always cheaper to purchase software with a credit card from the U.S., with added costs of surcharges, airmail, and import duties, than to buy the same products off the shelf at "discount" dealers over here. And although I've registered many packages, I'm rarely notified of an upgrade. It's hard to justify the high prices paid here, and easy to see why virtually everybody I know with a computer has pirated software. Entertainment software vendors lead the pack in nonresponsiveness, though it seems they have the most to lose from piracy. There's a vast market for PC software outside the U.S.; I can't believe software makers won't acknowledge it.

Ed Senechal
Dortmund, Germany
THE FUTURE IS NOW

In "The Next Software Revolution" (March 30, 1993), Michael J. Miller writes that Microsoft, IBM, and Apple are "leading the way" to document-oriented computing, but he seems unaware that GO Corp. has had a document-oriented environment in its pen-based operating system, PenPoint, since it was released in April 1992. PenPoint supports not only the embedded objects but also embedded documents, where a drawing can exist inside a word processing document, which can exist inside a spreadsheet,

and so on. What does the developer have to do in order to support this level of integration? Absolutely nothing. All the behavior is inherited by each application from PenPoint's object-oriented architecture. How can other players be leading the way to a place where GO Corp. has already arrived?

Barry Boone

Seattle, Washington

You're absolutely right. PC Magazine recognized GO Corp.'s pioneering efforts at Fall Comdex '91, when we gave the company an Award for Technical Excellence (December 31, 1991).--Ed

QWERTY IS STILL QUIRKY

I have noted quite a number of items in PC Magazine about "alternative" keyboard designs ("Keyboards Split," Trends, March 30, 1993). What these designs fail to recognize, however, is that breaking the keyboard in two in order to provide a more favorable hand/wrist angle is only half of the battle. These keyboards still feature a long-obsolete key layout.

When the QWERTY layout was designed in the early 1870s, touch typing had not even been thought of yet. The finger gymnastics required to touch type on a QWERTY keyboard are in large part responsible for many of the repetitive motion injuries associated with keyboards. It's time manufacturers improved this most basic user interface. Until all these new keyboards can provide custom layouts, though, none of them can truly be considered "ergonomic."

Randy Cassingham

Upland, California

A VIRUS BY ANY OTHER NAME. . .

In your review of our product, Victor Charlie ("Antivirus Software: Keeping Up Your Guard," March 16, 1993), you note that the program's signature library doesn't name viruses, and you describe this as idiosyncratic. On the contrary, it is the naming of viruses that is idiosyncratic. The 13 viruses used in your testing, for instance, are known by 47 different names. Both the flamboyant naming of viruses and the intense task of identifying viruses and their strains arguably encourage the writing of new and different viruses.

One way we approached research was to develop an antivirus program to capture virus signatures on the fly, making it possible to detect and track new file-infecting viruses with no name of any kind. Indeed, many viruses will never have names. Detection of a large number of viruses is of no interest to the user with only one virus loose on his or her machine or network.

Alan Dawson

Bangkok Security Associates

Bangkok, Thailand

A FONT IS A FONT IS A FONT

I think it would be useful if PC Magazine printed a chart of equivalent Windows fonts. I had the TrueType fonts that come with Microsoft Windows 3.1. Later I purchased Bitstream's TrueType font package and MicroLogic's MoreFonts. While I don't have a large financial investment in fonts, I think I've spent my money unwisely because font manufacturers don't make it clear that one of their font styles under one name is nearly

equivalent to a font under another name. For example, the MoreFonts Journal font could be a Courier font.

James Egan

North Tarrytown, New York

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